

SAMSUNG ELECTRONICS CANADA, INC.

HEADQUARTERS

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SERVICE DIVISION

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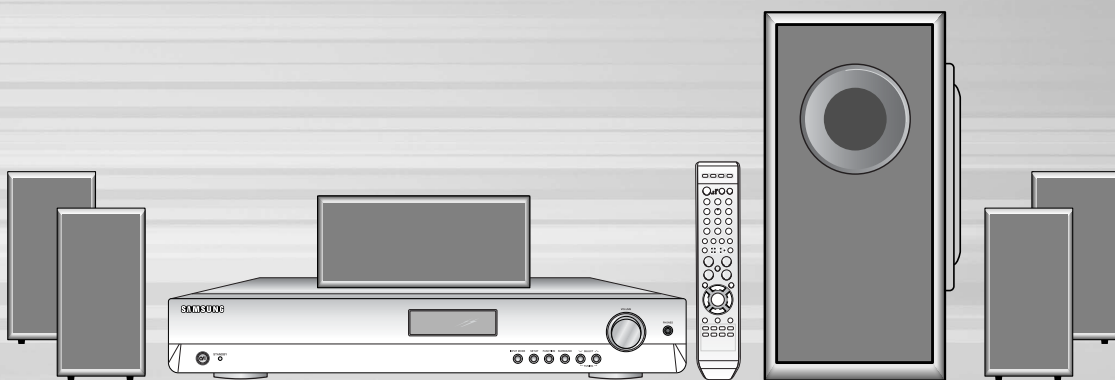
1-800-SAMSUNG (1-800-726-7864)



SAMSUNG

Digital Surround AV Receiver System *HT-AS610*



Instruction Manual



(AV-R610)



Safety Warnings

	CAUTION RISK OF ELECTRIC SHOCK. DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

Note to CATV system installer :
This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical



This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.



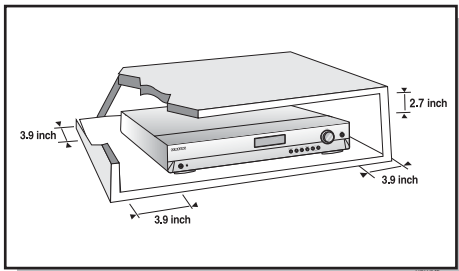
This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

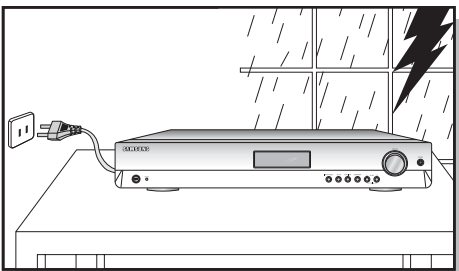
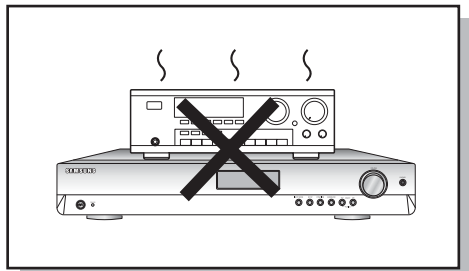
CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.



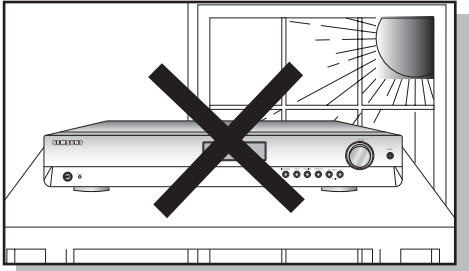
Precautions



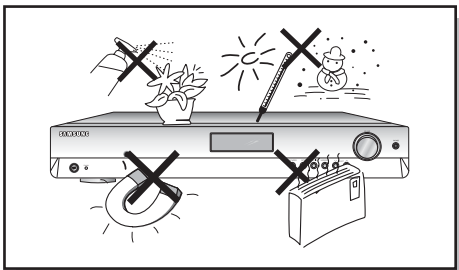
Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4inches). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect AC main plug from the wall outlet. Voltage peaks due to lightning could damage the unit.



Do not expose the unit to direct sunlight or other heat sources. This could lead to overheating and malfunction of the unit.

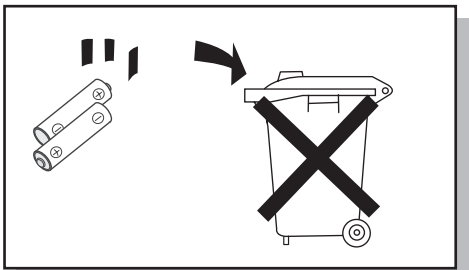


Protect the player from moisture (i.e. vases), and excess heat (e.g. fireplace) or equipment creating strong magnetic or electric fields (i.e. speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use.

Use of this product is for personal use only.

Condensation may occur if your player or disc have been stored in cold temperatures.

If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The battery used with this product contain chemicals that are harmful to the environment.

Do not dispose of batteries in the general household trash.



Features

○ Digital AV Receiver

This product is a pure digital AV receiver that performs digital signal processing to minimize signal distortion and loss.

○ Dolby Pro Logic II

Dolby Pro Logic II is a new form of multi-channel audio signal decoding technology that improves upon existing Dolby Pro Logic.

○ DTS (Digital Theater Systems)

DTS play backs 5.1 channel sound with less compression than Dolby Digital for richer sound.

○ SFE(Sound Field Effect) Using 24bit Audio DSP

Provides more realistic surround sound with normal stereo audio sources.



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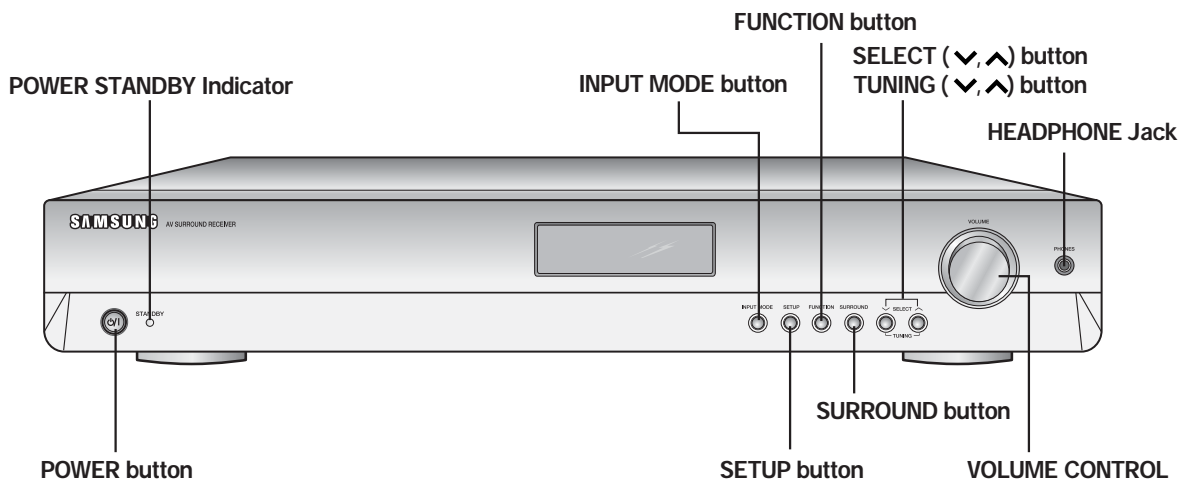
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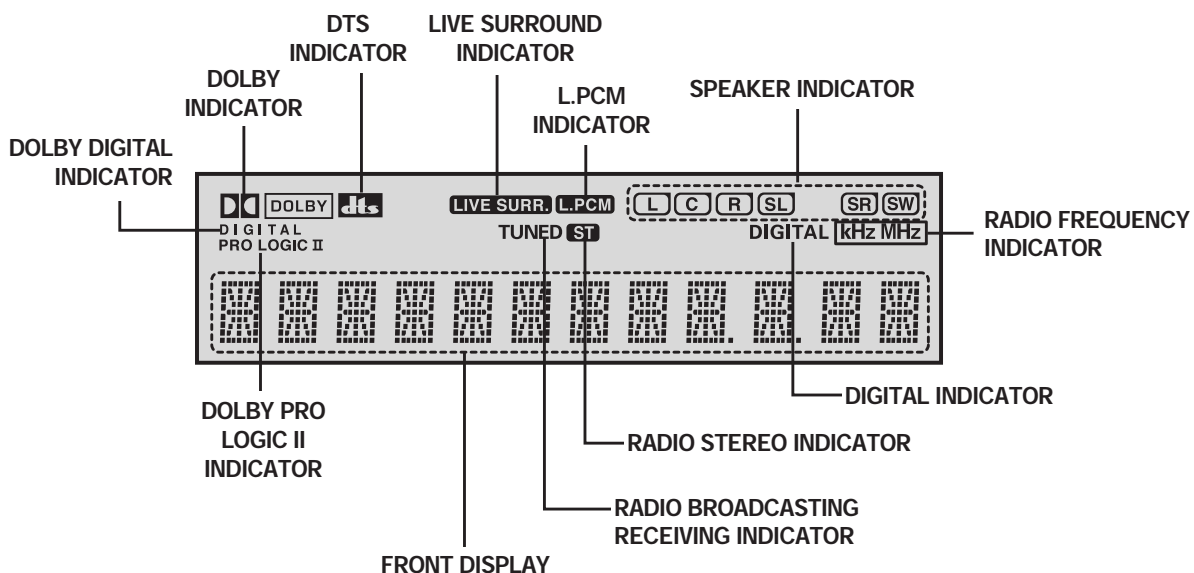


Description

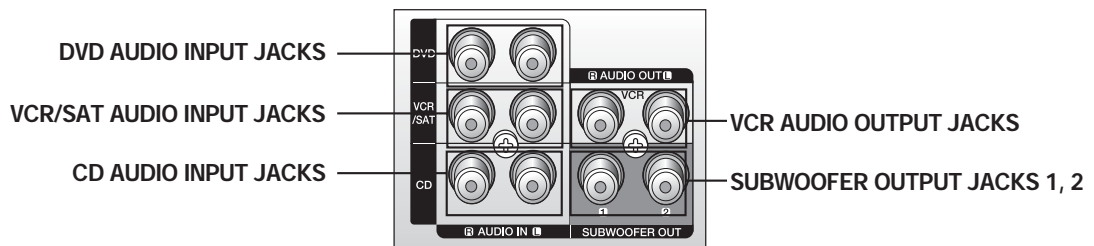
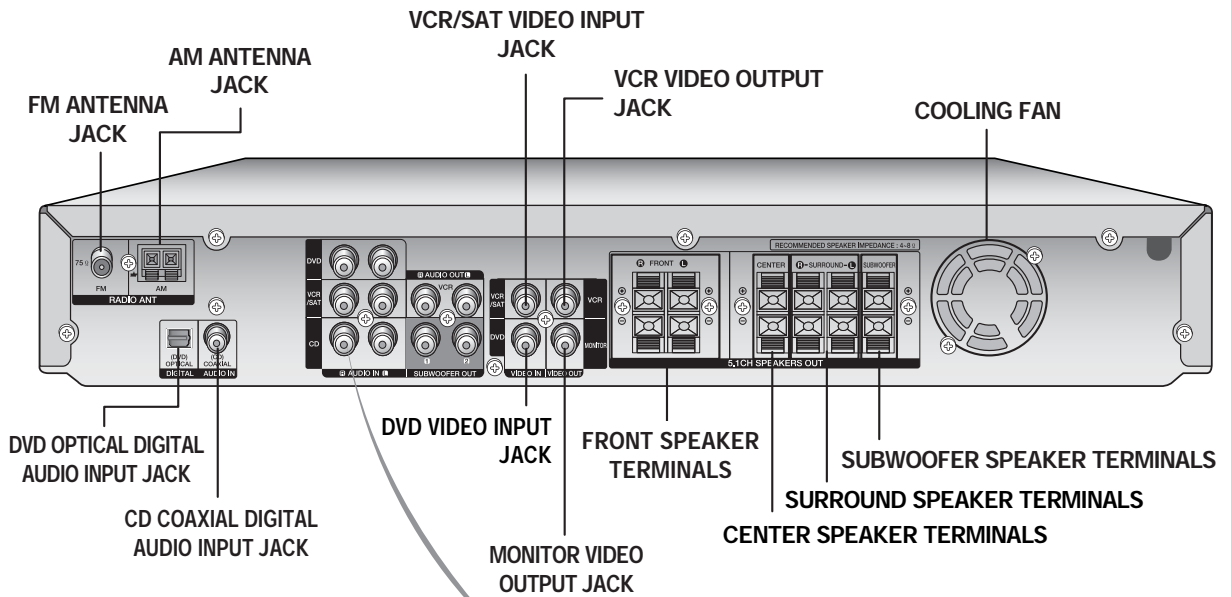
[Front Panel]



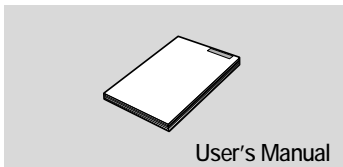
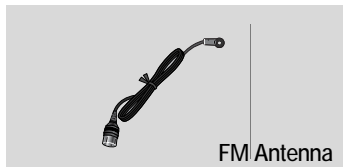
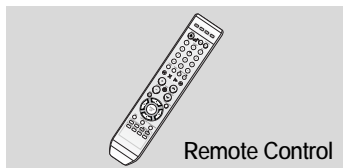
[Display]



[Rear Panel]



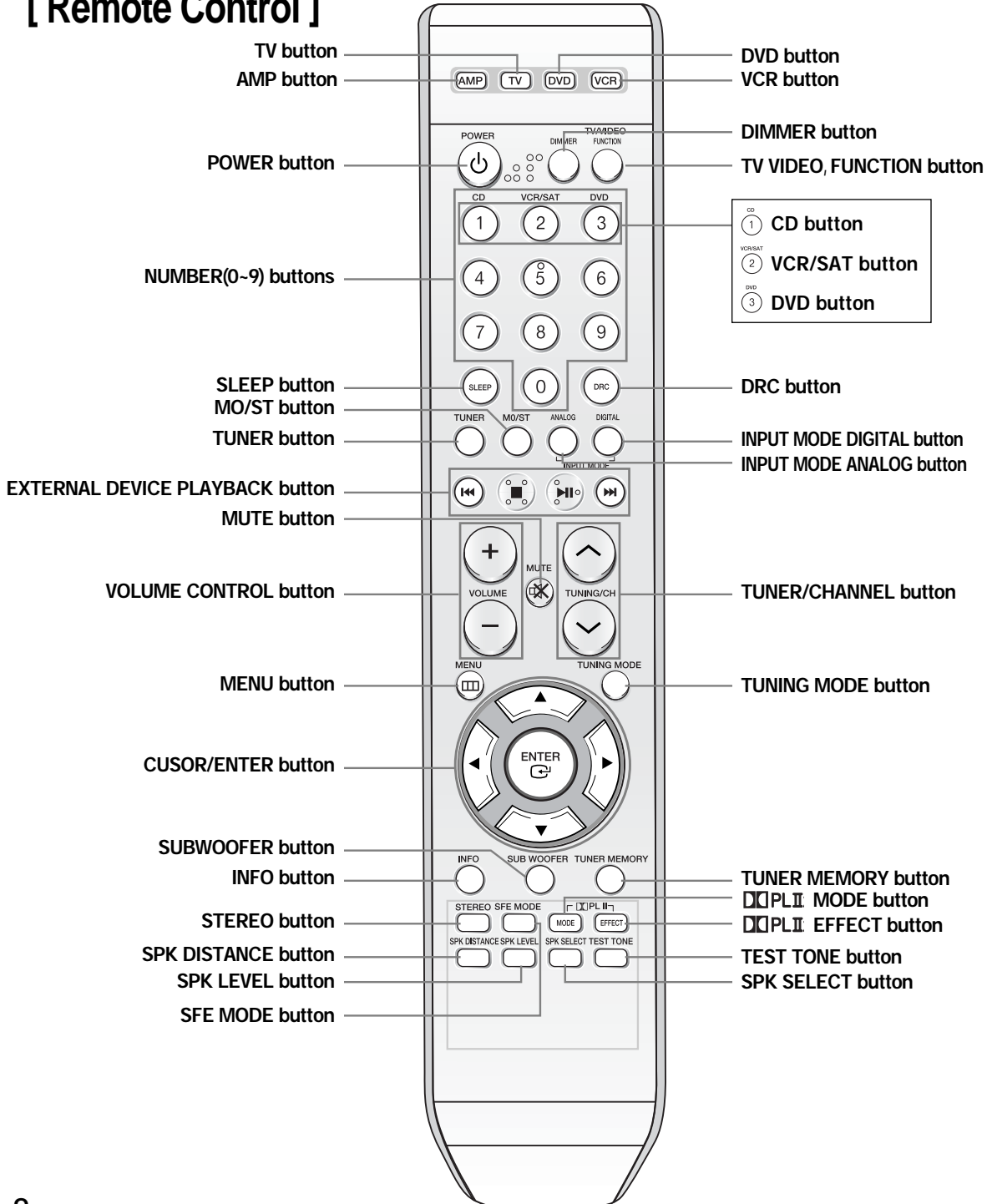
▶▶ Accessories ◀◀





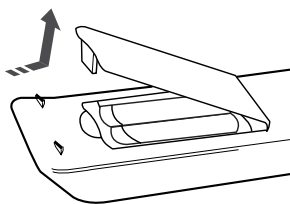
Description

[Remote Control]

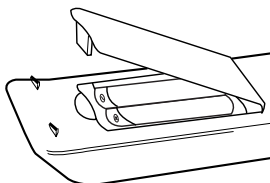


Insert Remote Batteries

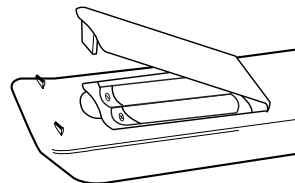
1 Remove the battery cover in the direction of the arrow.



2 Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and -).



3 Replace the battery cover.



Note

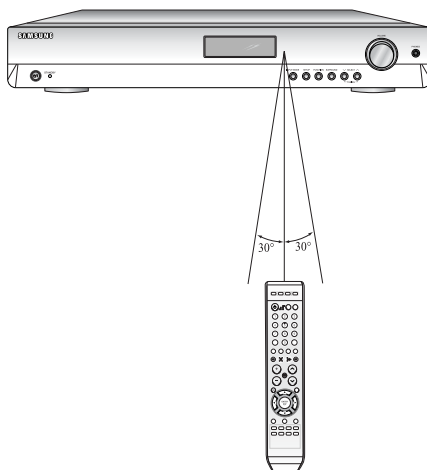


Follow these precautions to avoid leaking or cracking batteries:

- Place batteries in the remote control so they match the polarity:(+) to (+)and (-)to (-).
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

Range of Operation of the Remote Control

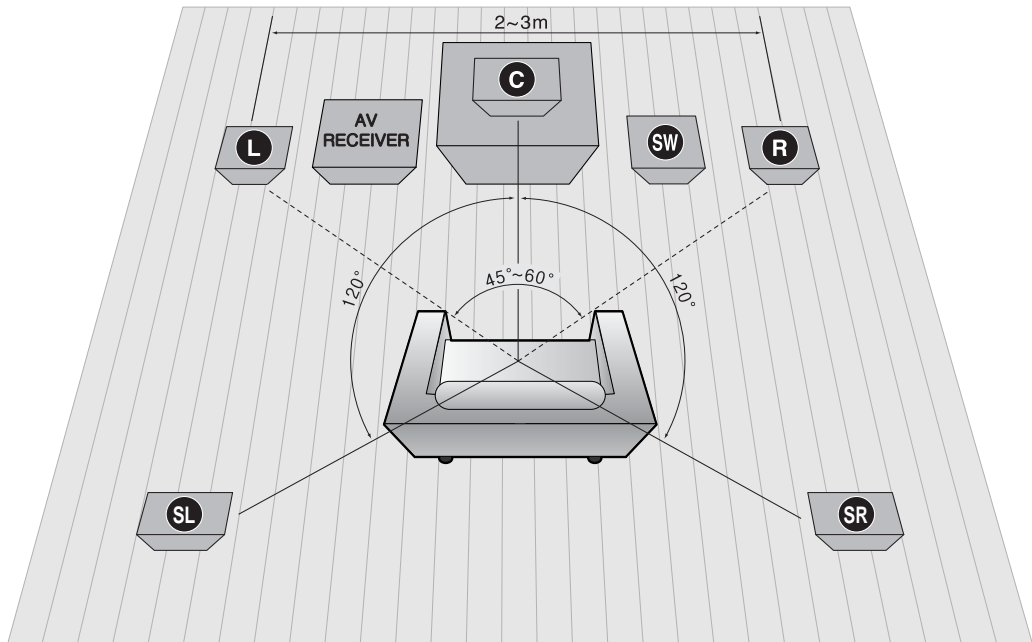
The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.





Connecting the Speakers

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.



Position of AV Receiver

- Place AV Receiver on a dedicated stand or rack.

Front Speakers **L R**

- Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
- Place the speakers so that their tweeters will be at the same height as your ear.
- Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

Center Speaker **C**

- It is best to install it at the same height as the front speakers.
- You can also install it directly over or under the TV.

Surround Speakers **SL SR**

- Place these speakers behind your listening position.
- If there isn't enough room, place these speakers so they face each other.
- Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.
- ※ Unlike the front and center speakers, the surround speakers are used to handle mainly sound effects and sound will not come from them all the time.

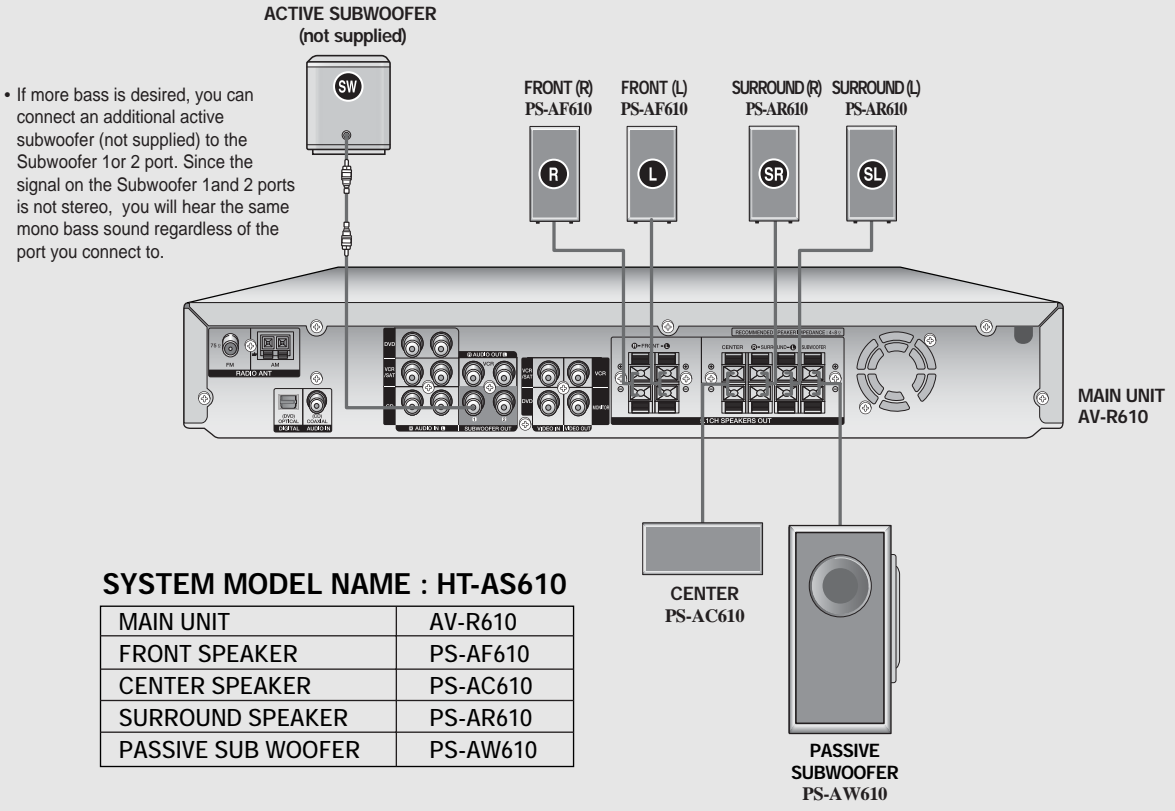
Subwoofer **SW**

- The position of the subwoofer is not so critical. Place it anywhere you like.

Note



- When you attach the speakers to a wall, make sure to fasten them tightly so they do not fall off.



▶ Connecting Speaker Wire

- 1 Press the tab of the speaker connector.
- 2 Insert the black wire into the black(-) terminal and the gray wire into the red(+) terminal.



Caution

- Keep the subwoofer speaker out of reach of children so as to prevent children from inserting their hands or alien substances into the duct (hole) of the subwoofer speaker.
- Do not hang on the wall through the duct (hole).

Note

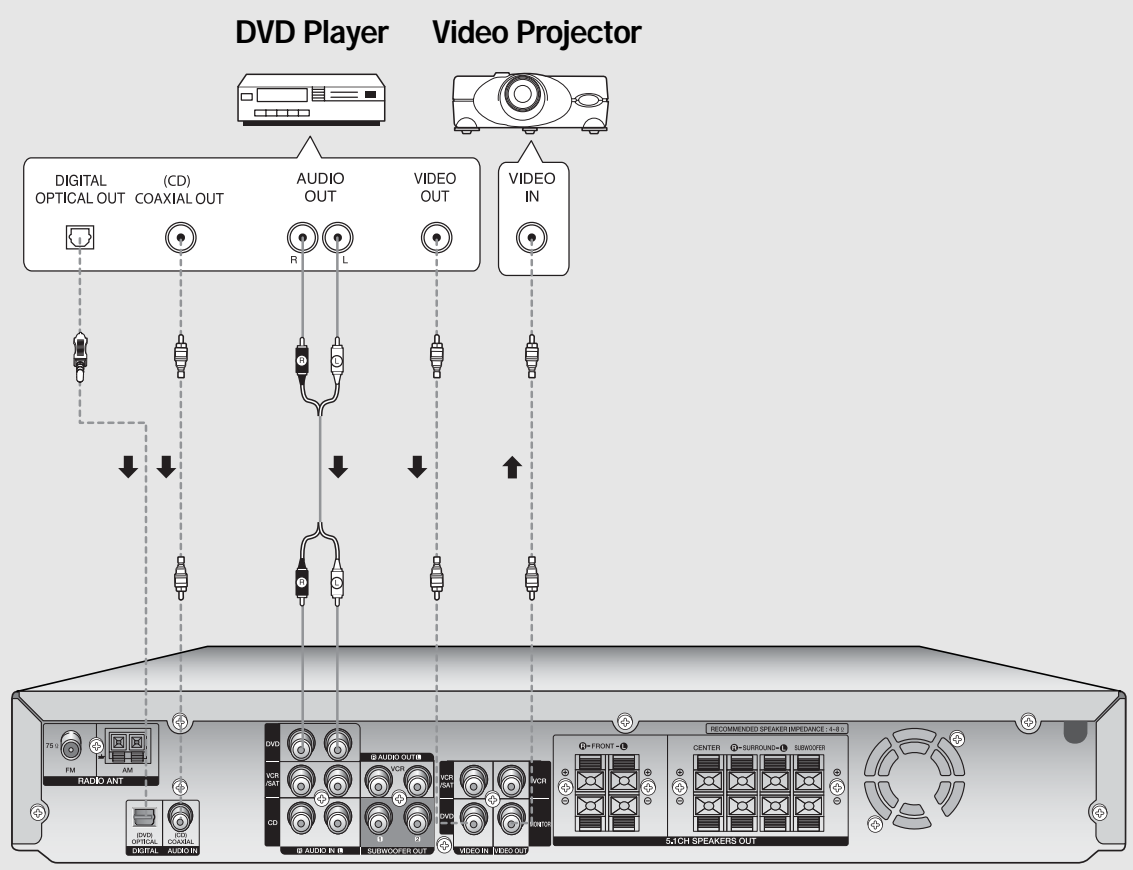
- Never touch speaker terminals while the power is on. Doing so could result in electric shock.
- Make sure the polarities (+ and -) are correct.



Connecting External Components

Connecting Video Component

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

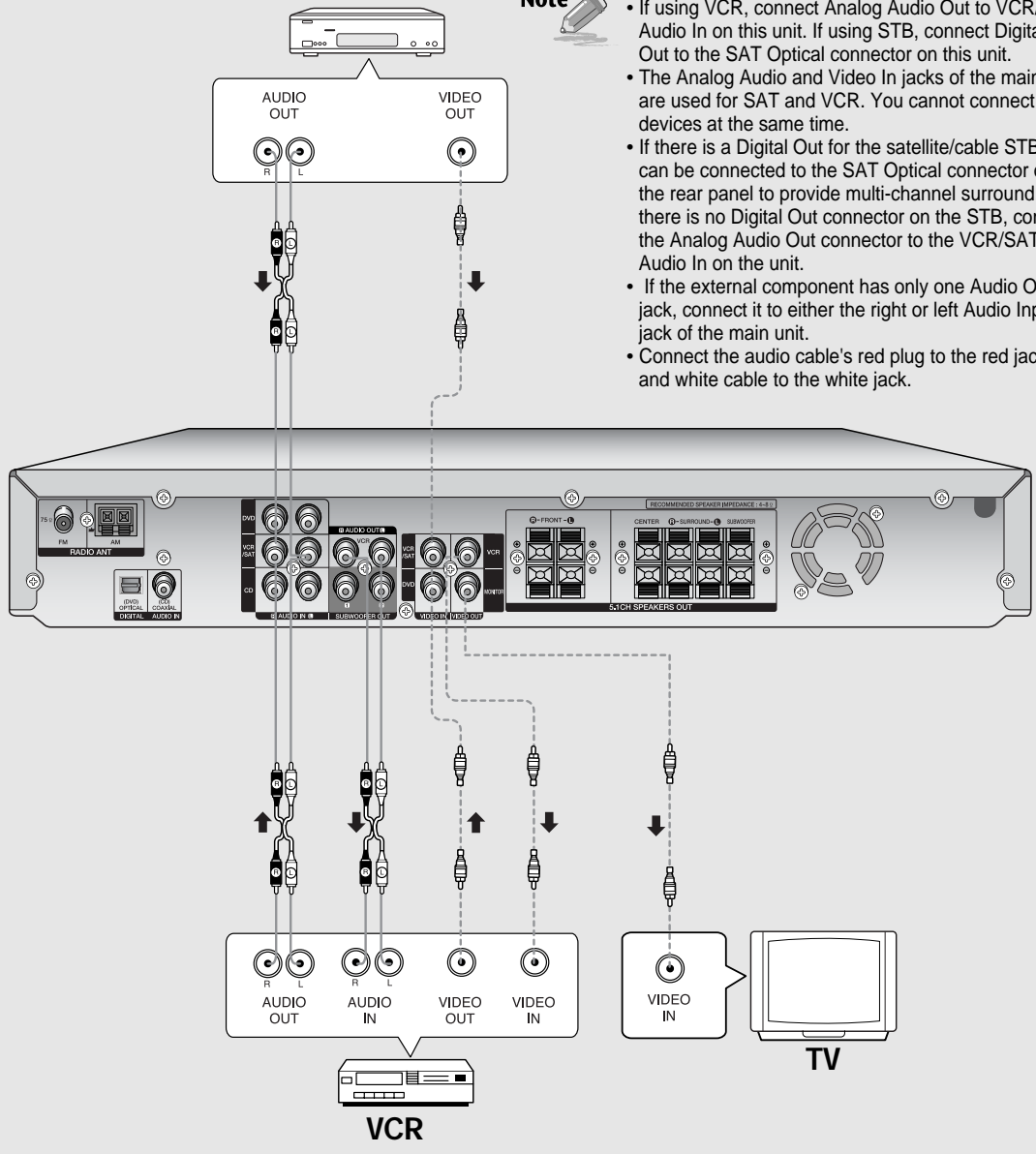


- Disconnect the power plug from the outlet if you will not use this unit for a long period of time.
- In a DVD/CD player, you can select one digital audio input from OPTICAL and COAXIAL.

SAT(Setup Box)

Note

- If using VCR, connect Analog Audio Out to VCR/SAT Audio In on this unit. If using STB, connect Digital Out to the SAT Optical connector on this unit.
- The Analog Audio and Video In jacks of the main unit are used for SAT and VCR. You cannot connect both devices at the same time.
- If there is a Digital Out for the satellite/cable STB, it can be connected to the SAT Optical connector on the rear panel to provide multi-channel surround. If there is no Digital Out connector on the STB, connect the Analog Audio Out connector to the VCR/SAT Audio In on the unit.
- If the external component has only one Audio Output jack, connect it to either the right or left Audio Input jack of the main unit.
- Connect the audio cable's red plug to the red jack and white cable to the white jack.

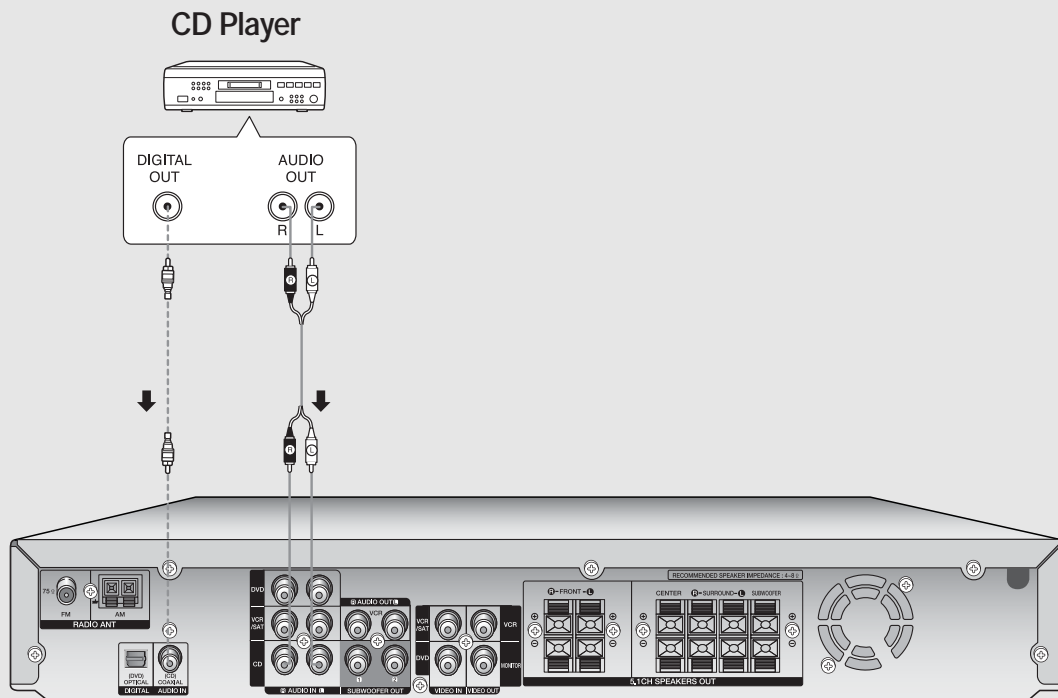




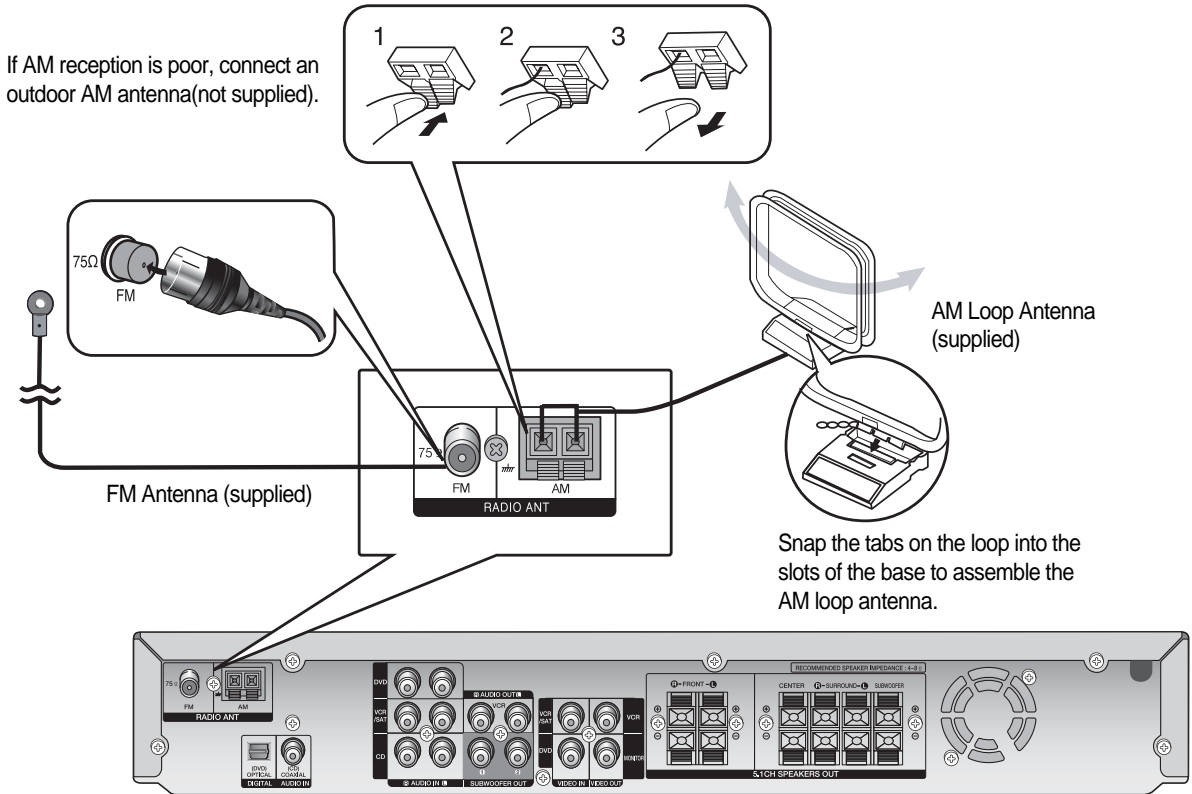
Connecting External Components

Connecting Audio Component

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.



Connecting the FM and AM Antennas



CONNECTIONS

FM antenna connection

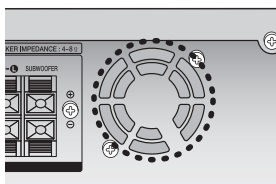
1. Connect the FM antenna supplied to the FM 75 COAXIAL terminal as a temporary measure.
2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

AM antenna connection

1. Connect the AM loop antenna supplied to the AM terminal and terminals.
2. If reception is poor, connect an outdoor single vinyl-covered wire to the AM terminal. (Keep the AM loop antenna connected).

COOLING FAN

The cooling fan dissipates the heat generated inside the unit so that the unit can be operated normally. The cooling fan is activated automatically to supply cool air to the unit.

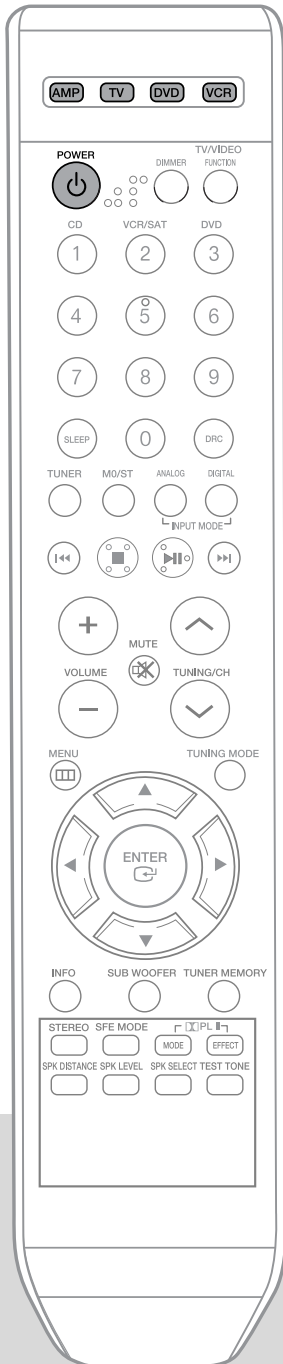


Please observe the following cautions for your safety.

- Make sure the unit is well-ventilated. If the unit has poor ventilation, the temperature inside may rise and cause damage to it.
- Do not obstruct the cooling fan or ventilation holes. (If the cooling fan or ventilation holes are covered with a newspaper or cloth, heat may build up inside the unit and fire may result.)



Before Using the AV Receiver



Turning On/Off

● REMOTE CONTROL

Press the **POWER** button of the remote control.

- This unit will be turned on or set to Standby mode.

● MAIN UNIT

1 Connect the power plug to the outlet.

2 Press the **POWER** button of the main unit.

- This unit will be turned on or set to Standby mode.

Functions of Dedicated Remote Control

You can operate your AMP, TV, DVD, VCR with one remote control.
See pages 42-45 for more details.



To Select the Function

● REMOTE CONTROL

Method 1

Press the **FUNCTION** button.

- Each time you press the this button, **FM** → **AM** → **DVD** → **VCR/SAT** → **CD** will be selected in turn.

Method 2

Press **CD**, **VCR/SAT**, **DVD** or **TUNER** button.

- You can directly select **CD**, **VCR/SAT**, **DVD** or **TUNER**.

● MAIN UNIT

Press **FUNCTION** button.

- Each time you press the this button, **FM** → **AM** → **DVD** → **VCR/SAT** → **CD** will be selected in turn.



Selecting Digital/Analog Input

You can listen to sound in Analog 2 Channels or Dolby Digital 5.1 Channel using this unit.



REMOTE CONTROL

For DVD Function

Press the **INPUT MODE DIGITAL** button.

- DVD OPTICAL or COAXIAL will be selected.



Press the **INPUT MODE ANALOG** button.

- DVD ANALOG will be selected.



For CD Function

Press the **INPUT MODE DIGITAL** button.

- CD OPTICAL or COAXIAL will be selected.



Press the **INPUT MODE ANALOG** button.

- CD ANALOG will be selected.





● MAIN UNIT

For DVD Function

Press the **INPUT MODE** button.

- DVD OPTICAL or COAXIAL and DVD ANALOG will be selected repetitively.



For CD Function

Press the **INPUT MODE** button.

- CD OPTICAL or COAXIAL and CD ANALOG will be selected repetitively.



Note

- You can enjoy Dolby Digital only if you connect the Digital Audio Output jack of an external audio component to the optical/coaxial Digital Audio Input jack on the main unit.
- The digital input mode is set to either OPTICAL or COAXIAL, depending on the setting of <SETUP> → <DIGITAL IN>.

Setting the Speaker Mode

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

Frequency response from the speaker will be adjusted according to your speaker configuration and whether certain speakers are used or not.



REMOTE CONTROL

1 Press **SPK SELECT** button to select the speaker you want.

- Each time you press this button, F.SPK → C.SPK → S.SPK → SW SPK → CROVR → SPK MODE OFF will be selected in turn.

2 Press **▲▼** button to set the speaker mode.

To Exit Setup Mode

- Wait for about 5 seconds or press the **SPK SELECT** button of the remote control to select SPK MODE OFF.

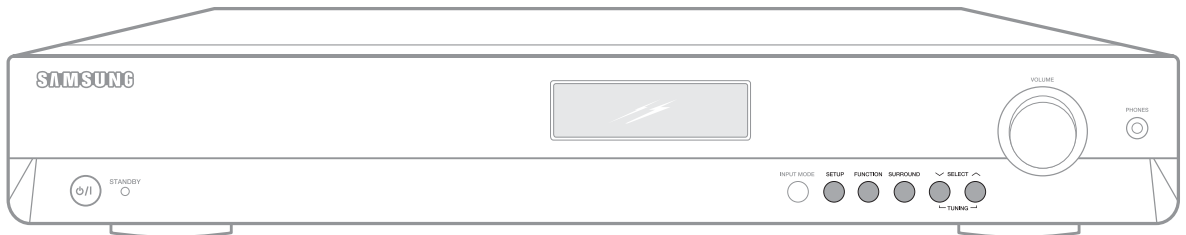
To turn the SUBWOOFER On or Off.

Press **SUBWOOFER** button.

- Each time you press this button, SW SPK : YES, SW SPK : NO will be selected in turn.
- If you play in 2 Channel Stereo, select 'YES' to use Subwoofer and 'NO' not to use.



- If F.SPK is set to 'SMALL', SW SPK is automatically set to 'YES'.



● MAIN UNIT

- 1 Press **SETUP** button.
 - "SETUP MODE" appears on the display and enters into Setup Mode.
- 2 Press **FUNCTION** button 1 time.
 - "SPK SETUP" appears in the display.
- 3 Press **SURROUND** button to select the speaker you want.
 - Each time you press this button, F.SPK → C.SPK → S.SPK → SW SPK → CROVR will be selected in turn.
- 4 Press **SELECT** (**▼**, **▲**) button to set the speaker mode.

■ To Exit Setup Mode

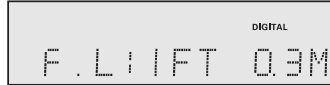
- Wait for about 5 seconds or press **SETUP** button.
"SETUP MODE OFF" appears on the display and exits Setup Mode.

Setting the Speaker

- **F.SPK (Front)** : LARGE, SMALL
- **C.SPK (Center)** : LARGE, SMALL, NONE
- **S.SPK (Surround)** : LARGE, SMALL, NONE
- **SW SPK (Subwoofer)** : YES, NO
- **CROVR (Crossover Frequency)** : 60, 80, 100, 120, 150, 180, 200Hz
- **LARGE** : Select when you use large speaker. You can listen to full range sound.
- **SMALL** : Select this when you use small speaker.
Bass below 100Hz will not be output.
- **NONE** : Select this when you use no speaker.
- **YES(Subwoofer)** : Select this when you use Subwoofer Speaker.
- **NO(Subwoofer)** : Select when you do not use Subwoofer Speaker.
- **CROVR**: Select the crossover frequency for the best bass response in your room.



Setting the Speaker Listening Distance



REMOTE CONTROL

1 Press the **SPK DISTANCE** button to select the speaker you want.

- Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W → DIST OFF will be selected in turn.

2 Press **▲▼** button to set the speaker distance.

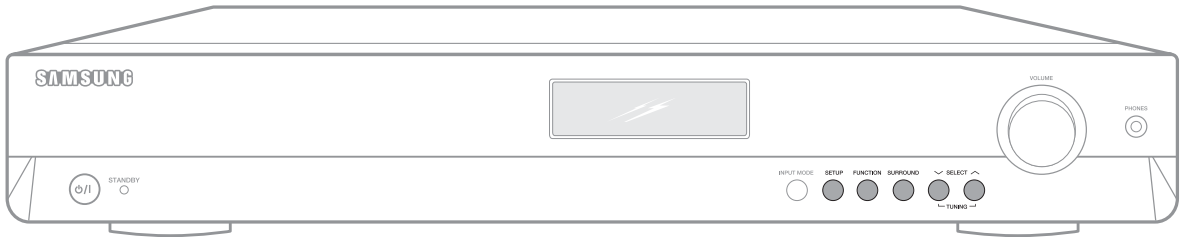
- For F.L, CEN, F.R, S.W, S.R, S.L Speaker, you can set the distance from the speaker to listening position between 1~30 feet in intervals of 1 feet.

To Exit Setup Mode

- Wait for about 5 seconds or press the **SPK DISTANCE** button of remote control to select DIST OFF.



- If the listening position is beyond the range of speaker distance setup when you place the speaker, set the speaker distance to the maximum.



● MAIN UNIT

- 1 Press **SETUP** button.
 - “SETUP MODE” appears on the display and enters into Setup Mode.
- 2 Press **FUNCTION** button 2 times.
 - “DIST SETUP” appears on the display.
- 3 Press **SURROUND** button to select the speaker you want.
 - Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4 Press **SELECT**(∇ , \blacktriangle) button to set the speaker distance.
 - For F.L, CEN, F.R, S.W, S.R, S.L Speaker, you can set the distance from the speaker to listening position between 1~30 feet in intervals of 1 feet.

■ To Exit Setup Mode

- Wait for about 5 seconds or press **SETUP** button.
“SETUP MODE OFF” appears on the display and exit Setup Mode.

Setting Speaker Distance

Set the distance from the speaker to listening position in intervals of 1 feet.

- **F.L (Front-Left)** : 1 feet ~ 30 feet
- **CEN (Center)** : 1 feet ~ 30 feet
- **F.R (Front-Right)** : 1 feet ~ 30 feet
- **S.R (Surround-Right)** : 1 feet ~ 30 feet
- **S.B (Surround Center)** : 1 feet ~ 30 feet
- **S.L (Rear-Left)** : 1 feet ~ 30 feet
- **SW (Subwoofer)** : 1 feet ~ 30 feet



Setting Digital Input

You can set the digital input for a DVD/CD player to either OPTICAL or COAXIAL.



● MAIN UNIT

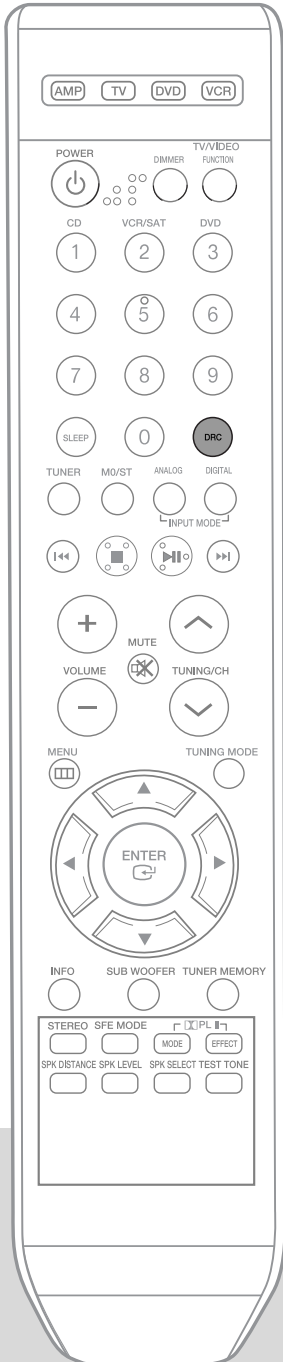
- 1** Press **SETUP** button.
 - "SETUP MODE" appears on the display and enters into Setup Mode.
- 2** Press **FUNCTION** button 3 times.
 - "DIGITAL IN" appears on the display.
- 3** Press **SURROUND** button to select the DVD or CD function.
 - Each time this button, DVD ↔ CD will be selected in turn.
- 4** Press **SELECT** (**∨**, **∧**) button to set the digital input.
 - Each time you press this button, OPTICAL ↔ COAXIAL will be selected in turn.

■ To Exit Setup Mode

- Wait for about 5 seconds or press **SETUP** button.
 - "SETUP MODE OFF" appears on the display and the unit exits Setup Mode.

Setting DRC (Dynamic Range Compression)

You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.



REMOTE CONTROL

Press **DRC** button.

- Each time you press this button, DRC : STD → DRC : MAX → DRC : MIN will be selected in turn.

MAIN UNIT

1 Press **SETUP** button.

- “SETUP MODE” appears on the display and enters into Setup Mode.

2 Press **FUNCTION** button 4 times.

- “DRC SETUP” appears on the display.

3 Press **SURROUND** button.

- “DRC : STD” appears on the display .

4 Press **SELECT**(**↓**, **↑**) button to set DRC.

- Each time you press this button, DRC : STD → DRC : MAX → DRC : MIN will be selected in turn.

To Exit Setup Mode

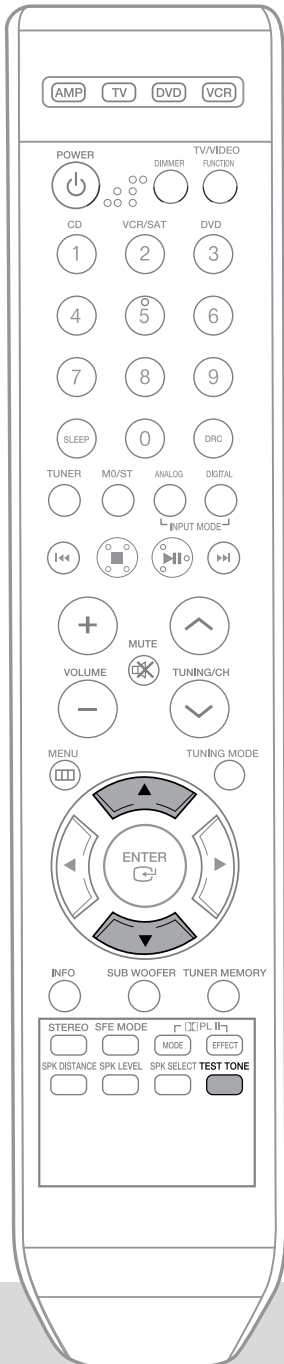
- Wait for about 5 seconds or press **SETUP** button.
“SETUP MODE OFF” appears on the display and the unit exits Setup Mode.

Setting DRC

- **STD** : Sets DRC effect to standard.
- **MAX** : Sets DRC effect to maximum.
- **MIN** : Sets DRC effect to minimum.

Test Tone

Use test tone to check the speaker connection status or level.



To Automatically Output Test Tone



REMOTE CONTROL

Press **TEST TONE** button.

- Test signal will be automatically output as follows; F.L → CEN → F.R → S.R → S.L → S.W.
- During test tone output, press ▲▼ button to adjust the speaker output level from -10 to +10 dB by 1 step.

To Stop Test Tone

- Press **TEST TONE** button again.



MAIN UNIT

1 Press **SETUP** button.

- "SETUP MODE" appears on the display and enters into Setup Mode.

2 Press **FUNCTION** button 5 times.

- "TEST-T AUTO" appears in the display.

3 Press **SURROUND** button.

- Test signal will be automatically output as follows; F.L → CEN → F.R → S.R → S.L → S.W .

- During test signal output, press **SELECT** (▼, ▲) button to adjust the speaker output level from -10 to +10 dB by 1 step.

To Stop Test Tone

Press **SETUP** button 1 time.

- "SETUP MODE OFF" appears on the display and test tone stops.



To Manually Output Test Tone



OPERATION

● MAIN UNIT

- 1 Press **SETUP** button.
 - "SETUP MODE" appears on the display and the unit enters into Setup Mode.
- 2 Press **FUNCTION** button 6 times.
 - "TEST-T MANU" appears in the display.
- 3 Press **SURROUND** button.
 - Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4 Press **SELECT**(**∇**, **∧**) button to set the test tone as you want.
 - You can adjust the speaker output level from -10 to +10dB by 1 step.
 - The sound gets quieter at -10dB and louder at +10dB.

■ To Stop Test Tone

Press **SETUP** button 1 time.
 • "SETUP MODE OFF" appears on the display and test signal stops.

Test Tone Output

- **F.L (Front-Left)** : -10 ~ +10dB
- **CEN (Center)** : -10 ~ +10dB
- **F.R (Front-Right)** : -10 ~ +10dB
- **S.R (Surround-Right)** : -10 ~ +10dB
- **S.L (Surround-Left)** : -10 ~ +10dB
- **S.W (Subwoofer)** : -10 ~ +10dB



Setting Speaker Level

You can set the balance and level of speakers



Remote Control

1 Press **SPK LEVEL** button to select the speaker you want.

- Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W → SPK LVL OFF will be selected in turn.

2 Press **▲▼** button to set the speaker level you want.

- You can adjust it from -10 to +10dB by 1 step.
- The sound gets quieter at -10dB and louder at +10dB.
- Default setting value is 00dB.

To Exit Setup Mode

- Wait for about 5 seconds or press **SPK LEVEL** button on the remote control to select SPK LVL OFF.



● MAIN UNIT

- 1** Press **SETUP** button.
 - “SETUP MODE” appears on the display and enters into Setup Mode.
- 2** Press **FUNCTION** button 8 times.
 - “LEVEL SETUP” appears on the display.
- 3** Press **SURROUND** button.
 - Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4** Press **SELECT**(**▼**, **▲**) button to set to the speaker level you want.
 - You can adjust it from -10 to +10dB by 1 step.
 - The sound gets smaller at -10dB and louder at +10dB.
 - Default setting value is 00dB

■ To Exit Setup Mode

- Wait for about 5 seconds or press **SETUP** button.
“SETUP MODE OFF” appears on the display and exits Setup Menu.


Setting Speaker Level

- **F.L (Front-Left)** : -10 ~ +10dB
- **CEN (Center)** : -10 ~ +10dB
- **F.R (Front-Right)** : -10 ~ +10dB
- **S.R (Surround-Right)** : -10 ~ +10dB
- **S.L (Surround-Left)** : -10 ~ +10dB
- **S.W (Subwoofer)** : -10 ~ +10dB

Dolby Pro Logic II Mode

This mode provides 5.1 channel sound from 2 channel sources

REMOTE CONTROL

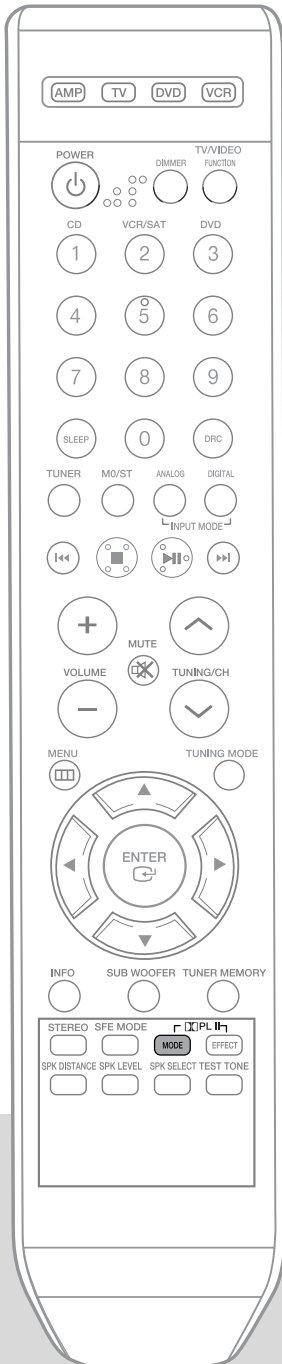
Press  **PL II: MODE** button.

- Each time you press this button, CINEMA → MATRIX → GAME → PROLOGIC → MUSIC will be selected in turn.



To Exit Setup Mode

- Wait for about 5 seconds.





● MAIN UNIT

1 Press **SURROUND** button to select "DPL II" Mode.

- Each time you press this button, DPL II → SFE → STEREO will be selected in turn.

2 Press **SELECT**(**▼**, **▲**) button.

- Each time you press **SELECT** (**▲**) button, CINEMA → MATRIX → GAME → PROLOGIC → MUSIC will be selected in turn.
- Each time you press **SELECT** (**▼**) button, MUSIC → PROLOGIC → GAME → MATRIX → CINEMA will be selected in turn.

■ *To Exit Setup Mode*

- Wait for about 5 seconds.

Dolby Pro Logic II Mode

- **MUSIC** : Provides 5.1 Channel Surround sound to digital, analog or existing stereo sources such as CD, TAPE, FM, TV and Stereo VCR.
- **CINEMA** : Adds realism to the movie soundtrack.
- **MATRIX** : You will hear 5.1 Channel Surround sound.
- **GAME** : Enhances the excitement of the game's sound.
- **PROLOGIC** : You will experience a surround effect with just the front left and right speakers.

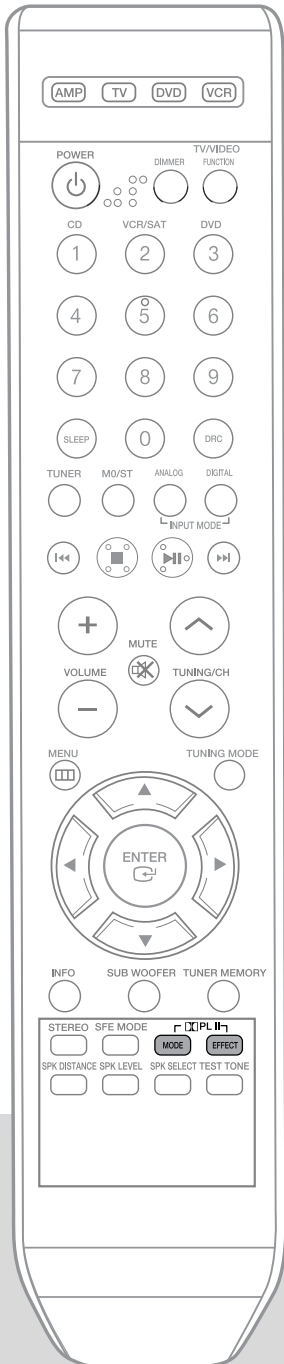
Note



- You cannot use Dolby Pro Logic II Mode for multi channel signals such as Dolby Digital and DTS.
- Pro Logic works only for PCM audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.
- Sound will not be output from rear center speaker if PCM audio signal is mono.

Dolby Pro Logic II Effect

This function works only in Dolby PRO LOGIC II MUSIC Mode.



REMOTE CONTROL

1 Press **PL II MODE** button to select 'MUSIC' Mode.

2 Press **PL II EFFECT** button.

- Each time you press this button, C-WIDTH → DIMENSION → PANORAMA → DPL II EFT OFF will be selected in turn.



3 Press **▲▼** button to select Dolby Pro Logic II effect you want.

- C-WIDTH: You can set from 0 to 7.
- DIMENSION: You can set from -7 to +7.
- PANORAMA: You can Set it ON or OFF.

To Exit Setup Mode

- Wait for about 5 seconds or press **PL II Effect** button of remote control to select DLP II EFT OFF.



● MAIN UNIT

- 1** Press **SETUP** button.
 - "SETUP MODE" appears on the display and enters into Setup Mode.
- 2** Press **FUNCTION** button 10 times.
 - "DPL II MODE" appears on the display.
- 3** Press **SURROUND** button.
 - Each time you press this button, **C-WIDTH** → **DIMENSION** → **PANORAMA** will be selected in turn.
- 4** Press **SELECT**(**▼**, **▲**) button to select Dolby Pro Logic II effect you want.

■ *To Exit Setup Mode*

- Wait for about 5 seconds or press **SETUP** button.
"SETUP MODE OFF" appears on the display and exits Setup Mode.

Dolby Pro Logic IIx Effect

- **C-WIDTH** : This sets the width of the center image. The higher the setting, the less sound comes from the center speaker.
- **DIMENSION** : Incrementally adjusts the sound field (DSP) from the front or rear.
- **PANORAMA** : This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.

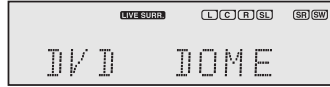
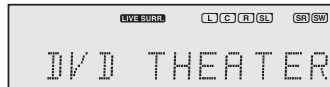
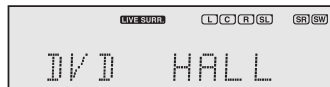
SFE Mode

Refer to the unique sound existing at specific place and you can feel live sound as if you are listening at actual site.

REMOTE CONTROL

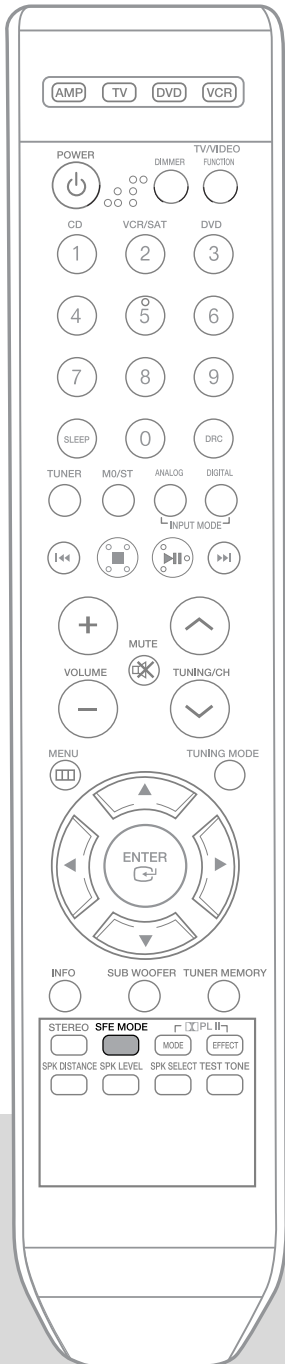
Press **SFE MODE** button.

- Each time you press this button, **HALL** → **THEATER** → **ARENA** → **CLUB** → **DOME** → **STADIUM** → **CHURCH** will be selected in turn.



To Exit Setup Mode

- Wait for about 5 seconds.







● MAIN UNIT

1 Press **SURROUND** button to select 'SFE' Mode.

- Each time you press this button, DPL II → SFE → STEREO will be selected in turn.

2 Press **SELECT**(,) button.

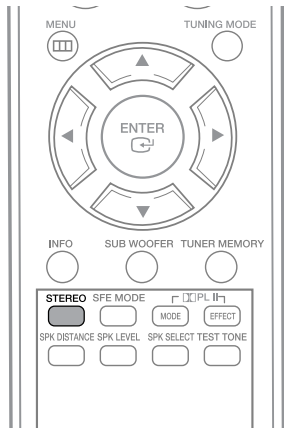
- Each time you press Select () button, HALL → THEATER → ARENA → CLUB → DOME → STADIUM → CHURCH will be selected in turn
- Each time you press Select () button, CHURCH → STADIUM → DOME → CLUB → ARENA → THEATER → HALL will be selected in turn.

■ *To Exit Setup Mode*

- Wait for about 5 seconds.

Stereo Mode

You can select this mode when you listen to sound through the Front Left and Right speakers and subwoofer.



REMOTE CONTROL

Press **STEREO** button.

- "STEREO" appears in the display and Stereo Mode is selected.



MAIN UNIT

Press **SURROUND** button to select 'STEREO'.

- Each time you press this button, DPL II → SFE → STEREO will be selected in turn.

To Exit Setup Mode

- Wait for about 5 seconds.

To Exit Setup Mode

- Wait for about 5 seconds.

Note



- When PCM and Analog Stereo signals are input, the left and right channels are played back in Stereo Mode.

For Surround Mode and Input Signal

o = active, - = inactive

Surround Mode	Input Signal	Decoding	Output Channel				Display Information	
			L/R	C	SL SR	Sub Woofers	Display Signal Format	Channel Status
DOLBY (MUSIC, CINEMA, MATRIX, GAME, PROLOGIC)	Dolby D Surr. EX	Dolby Digital 5.1	o	o	o	o	ⓧ DIGITAL	L, C, R, SL, SR, SW
	Dolby D (5.1ch)	Dolby Digital 5.1	o	o	o	o	ⓧ DIGITAL	L, C, R, SL, SR, SW
	Dolby D (2ch)	Pro Logic II	o	o	o	o	ⓧ DIGITAL	L, C, R, SL, SR, SW
	Dolby D (2ch Surr)	Pro Logic II	o	o	o	o	ⓧ DIGITAL	L, C, R, SL, SR, SW
	L.PCM (Audio)	Pro Logic II	o	o	o	o	L.PCM	L, C, R, SL, SR, SW
	Analogique	Pro Logic II	o	o	o	o	ANALOG	L, C, R, SL, SR, SW
DTS	DTS-ES	DTS 5.1	o	o	o	o	DTS	L, C, R, SL, SR, SW
	DTS 96/24	DTS 5.1	o	o	o	o	DTS	L, C, R, SL, SR, SW
	DTS (5.1)	DTS 5.1	o	o	o	o	DTS	L, C, R, SL, SR, SW
	L.PCM (Audio)	Neo:6	o	o	o	-	L.PCM	L, R
SFE	Dolby D (2ch)	DD+ SFE	o	o	o	o	ⓧ DIGITAL	L, C, R, SL, SR, SW
	Dolby D (2ch Surr)	DD+ SFE	o	o	o	o	ⓧ DIGITAL	L, C, R, SL, SR, SW
	L.PCM (Audio)	SFE	o	o	o	o	L.PCM	L, C, R, SL, SR, SW
	Analogique	SFE	o	o	o	o	ANALOG	L, C, R, SL, SR, SW
STEREO	Dolby D (2ch)	DD	o	-	-	-	ⓧ DIGITAL	L, R, SW
	Dolby D (2ch Surr)	DD	o	-	-	-	ⓧ DIGITAL	L, R, SW
	L.PCM (Audio)	Stereo	o	-	-	-	L.PCM	L, R, SW
	L.PCM 96KHz	Stereo	o	-	-	-	L.PCM	L, R, SW
	Analogique	Stereo	o	-	-	-	ANALOG	L, R, SW

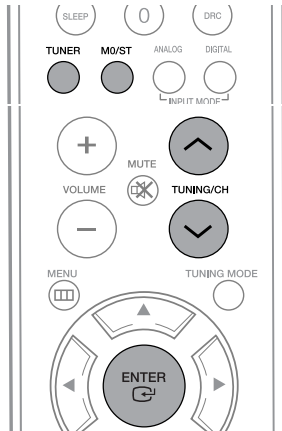
L/R : Front Speaker (Left/Right) C : Center Speaker SL/SR : Rear Speaker (Left/Right) SW : Subwoofer



- Channel status display are dependent on "Speaker Configuration".
- SFE Mode works 2ch signal.

Listening to Radio

You can listen to the chosen band (FM, AM broadcast stations) by using either the automatic or manual tuning operation.



REMOTE CONTROL

1 Press TUNER button.

- Each time you press this button, FM → AM will be repetitively selected.

2 Select frequency.

- Automatic Tuning 1 :
 - 1) Press **TUNER MODE** button to select PRESET.
 - 2) Press **TUNING/CH** (**▼**, **▲**) button to select the preset frequency.
- Automatic Tuning 2 :
 - 1) Press **TUNER MODE** button to select MANUAL.
 - 2) Press and hold **TUNING/CH** (**▼**, **▲**) button to automatically tune in frequency.
- Manual Tuning :
 - 1) Press **TUNER MODE** button to select MANUAL.
 - 2) Press **TUNING/CH** (**▼**, **▲**) button briefly to increase or decrease frequency by step by step.

To Listen to Mono/Stereo

Press **MO/ST** button on the remote.

- Each time you press this button, STEREO, MONO will be selected in turn.
- If you select MONO in the area with weak reception, it will help to reduce noise.
- This function works only with the Remote Control.

MAIN UNIT

1 Press FUNCTION button to select FM or AM.

2 Select the frequency.

- Automatic Tuning :
Press and hold **TUNING**(**▼**, **▲**) button to automatically tune in frequency.
- Manual Tuning :
Press **TUNING**(**▼**, **▲**) button briefly to increase or decrease the frequency step by step.

How to select MAIN, UNIT, PRESET, MANUAL

1. Press the **SETUP** button.
2. Press the **FUNCTION** button 9 times.
 - "TUNER SETUP" appears in the display.
3. Press the **SURROUND** button.
4. **SELECT** (**▼**, **▲**) button to select MANUAL or PRESET.

Presetting Radio Stations

You can preset up to 30 FM and AM stations.



REMOTE CONTROL

Ex) If you preset FM 89.10 station in 2ch

- 1 Press **TUNER** button.
 - Each time you press this button, FM → AM will be selected in turn.



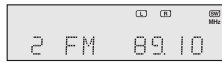
- 2 Press **Select** button and then **TUNING MODE** button to select 89.10.
 - Refer to step 2, page 38, to tune in automatically and manually.



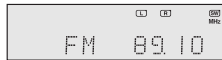
- 3 Press **TUNER MEMORY** button.
 - Tuner number will blink on the display.



- 4 Press **TUNING/CH** (↓, ↑) button to select preset 2.
 - You can select from presets 1 to 30.



- 5 Press **TUNER MEMORY** button.
 - Tuner number will disappear and station 89.1 will be saved in preset 2.



- 6 To preset other stations, repeat steps 2 to 5.

To Listen to Preset Station

- Press **TUNING MODE** button of the remote control to select the PRESET and press **TUNING/CH** (↓, ↑) button.



Convenient Functions



Sleep Timer Function

You can set the time that this unit will shut itself off.

REMOTE CONTROL

Press the **SLEEP** button.

- SLEEP : OFF → 15 → 30 → 45 → 60 → 90 → 120MIN will be selected in turn.

To Check Sleep Timer

Press **SLEEP** button.

- The remaining time before this unit will shut itself off is shown on the display.
- Pressing the button again changes the sleep time from what you have set earlier.

To Cancel Sleep Timer

- Press **SLEEP** button until SLEEP : OFF appears on the display.

Mute Function

This function is useful when answering a doorbell or telephone call.

REMOTE CONTROL

Press the **MUTE** button.

- **MUTE** appears on the display.

To Output Sound Again

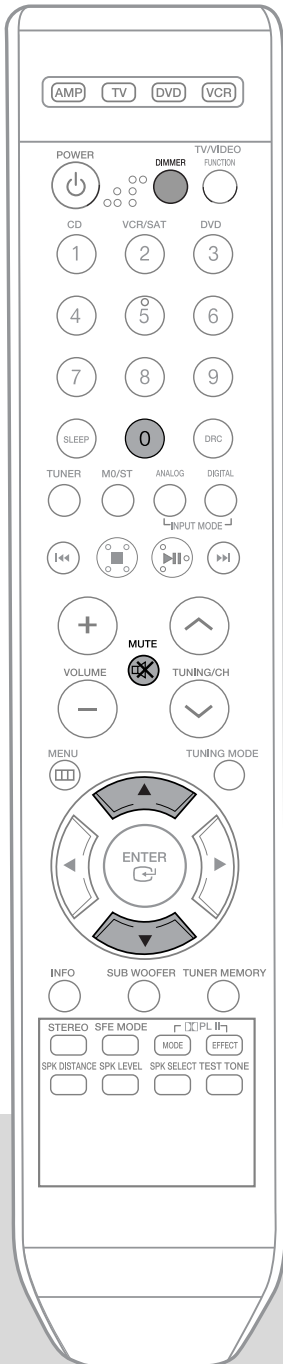
Press **MUTE** button again.

- **MUTE** will disappear and sound will Output.

Note



- SLEEP, Mute and Adjust Display function can only be operated with the remote control.



Reset Function

● REMOTE CONTROL

- 1 Press the **MUTE** button.
 - **MUTE** appears on the display.
- 2 Press "**0**" button five times and then press **ENTER** button.
- 3 Press **▲▼** buttons to select "**YES**".
 - The unit will turn automatically back on in 5 seconds.

Caution!

- Using the **RESET** function will erase all stored settings.
- Do not use this unless necessary.

Adjust the Display

You can adjust the brightness of the display.

● REMOTE CONTROL

- Press the **DIMMER** button.
- Each time you press this, the brightness of the display will be adjusted.

Using Headphone

Use headphones (not supplied) for private listening pleasure.

Connect the headphone to the headphone jack and listen to music.



- Note**
- Do not turn the volume up too high when you use headphones as it may damage your hearing.



Operating your TV with the Remote Control



1 Press **TV** button to set the remote to TV mode.

2 Press **POWER** button to turn on the TV.

3 Point the remote control toward the TV.

4 While holding down **POWER** button, enter the code corresponding to your brand of TV.

- If the code matches the TV's code, the TV will be turned off.
- If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.

5 If TV is turned on or off when you press the power button of the remote control, the setting is completed.

- You can use the TV POWER, VOLUME, CHANNEL, MENU and Numeric buttons (0~9).

Note 

- The remote control may not work on some brands of TVs. Also, some operation may not be possible depending on your brand of TV.
- The remote control will work with Samsung TVs by default.

TV Brand Code List

Brand	Code Number	Brand	Code Number	Brand	Code Number
ADMIRAL(M,WARDS)	056,057,058	LUXMAN	018	SYLVANIA	018,040,048,054,059,060,062
A MARK	001,015	LXI(SEARS)	019,054,056,059,060,062,063,065,071	SYMPHONIC	061,095,096
ANAM	001,002,003,004,005,006,007,008,009,010,011,012,013,014	MAGNAVOX	015,017,018,048,054,059,060,062,072,089	TATUNG	006
AOC	001,018,040,048	MARANTZ	040,054	TECHWOOD	018
BELL & HOWELL(M,WARDS)	057,058,081	MATSUI	054	TEKNIKA	003,015,018,025
BROCSONIC	059,060	MGA	018,040	TMK	018,040
CANDLE	018	MITSUBISHI/MGA	018,040,054,059,060,075,101	TOSHIBA	019,057,063,071,101,107,109,110,111,113
CETRONIC	003	MTC	018	VIDTECH	018
CITIZEN	003,018,025	NEC	018,019,020,040,059,060	VIDECH	059,060,069
CINEMA	097	NIKEI	003	WARDS	015,017,018,040,048,054,060,064
CLASSIC	003	ONKING	003	YAMAHA	018
CONCERTO	018	ONWA	003	YORK	040
CONTEC	046	PANASONIC	006,007,008,009,054,066,067,073,074	YUPITERU	003
CORONADO	015	PENNEY	018	ZENITH	058,079
CRAIG	003,005,061,082,083,084	PHILCO	003,015,017,018,048,054,059,062,069,090	ZONDA	001
CROSLEX	062	PHILIPS	015,017,018,040,048,054,062,072,112,114,117,118	DONGYANG	003,054
CROWN	003	PIONEER	063,066,080,091	LOWE	054
CURTISMATES	059,061,063	PORTLAND	015,018,059	FINLUX	054,109,114
CXC	003	PROTON	040	YOKO	054
DAEWOO	002,003,004,015,016,017,018,019,020,021,022,023,024,025,026,027,028,029,030,032,034,035,036,040,048,059,090,099,100	QUASAR	006,066,067	LOEWE OPTA	054,114
DAYTRON	040	RADIO SHACK	017,048,056,060,061,075	PHONOLA	054,112,114
DYNASTY	003	RCA/PROSCAN	018,059,067,076,077,078,092,093,094	RADIOLA	054,112
EMERSON	003,015,040,046,059,061,064,082,083,084,085	REALISTIC	003,019	SCHNEIDER	054
FISHER	019,065,103	SAMPO	040	AKAI	103
FUNAI	003	SAMSUNG	000,015,016,017,040,043,046,047,048,049,054,059,060,098	GRUNDIG	108,109,113,119,120,121
FUTURETECH	003	SANYO	019,061,065,101,102,103,104	BLAUPUNKT	108
GENERAL ELECTRIC(GE)	006,040,056,059,066,067,068	SCOTT	003,040,060,061	SIEMENS	108
HALL MARK	040	SEARS	015,018,019	CGE	113
HITACHI	015,018,050,059,069	SHARP	015,057,064,101,105,106,115	IMPERIAL	113
INKEL	045	SIGNATURE 2000(M,WARDS)	057,058	MIVAR	113
JC PENNY	056,059,067,086	SONY	050,051,052,053,055,101	SABA	114
JVC	070	SOUNDESIGN	003,040	BANG & OLUFSEN	114
KTV	059,061,087,088	SPECTRICON	001	BRIONVEGA	114
KEC	003,015,040	SSS	018	FORMENTI	114
KMC	015			METZ	114
LG(GOLDSTAR)	001,015,016,017,037,038,039,040,041,042,043,044,054,086			WEGA	114
				RADIOMARELLI	114
				SINGER	114
				SINUDYNE	114
				TELEFUNKEN	116

Operating your DVD (VCR) with Remote Control



1 Press **DVD** button to set the remote to DVD mode.
• If you operate VCR, press VCR button to set the remote to VCR mode.

2 Press **POWER** button to turn on the DVD (VCR).

3 Point the remote control toward the DVD (VCR).

4 While holding down **POWER** button, enter the code corresponding to your brand of DVD (VCR).

- If the code matches the DVD (VCR)'s code, the DVD (VCR) will be turned off.
- If there is more than one code listed for your DVD (VCR) in the table, enter one at a time to determine which code works.

5 If DVD (VCR) is turned on or off when you press the power button of the remote controller, the setting is completed.

- You can use DVD (VCR) POWER, VOLUME, PLAY, PAUSE, STOP, SKIP, MENU and Numeric button (0-9).

Note 

- The remote control may not work on some brands of DVD (VCR)s. Also, some operations may not be possible depending on your brand of DVD (VCR).
- The remote control will work with Samsung DVDs (VCRs) by default.


VCR Brand Code List

Brand	Code Number	Brand	Code Number	Brand	Code Number
ADMIRAL(M,WARDS)	043, 106	MEI	001,033	TASHIRO	050
AWIA	044, 045, 046	MEMOREX	001, 025, 033, 054, 091, 100	TATUNG	047, 052, 092
AKAI	088, 089, 090	MINOLTA	020, 021, 062	TEAC	044, 047, 052, 092
ANAM	001, 002, 003, 004, 005, 033	MITSUBISHI/MGA	068, 069, 070, 101, 102	TECHNICS	001, 033, 049, 091
AOC	091	MTC	072	TEKNIKA	001, 025, 033
AUDIODYNAMIC	019, 047, 092	MULTITECH	044, 057, 069	TOSHIBA	006, 051
BELL & HOWELL(M,WARDS)	048, 093	NEC	019, 047, 052, 057, 092	TOTEVISION	025, 072
BROKSONIC	092, 094, 095	OLYMPIC	049, 091	TAEKWANG	087
CANON	001, 033, 049, 091	OPTIMUS	101	UNITECH	072
CAPEHART	011	ORION	103	VECTORRESEARCH	019
CITIZEN	050	PANASONIC	001, 004, 033, 049, 067, 091, 107	VIDEO CONCEPTS	019
CRAIG	050, 072, 096	PENNEY	019, 020, 072	VIDEOSONIC	072
CRITERION	051	PENTAX	001, 020, 021, 033, 062	WARDS	001, 020, 031, 032, 033, 043, 050, 054, 072, 100, 105, 106, 109
CURTISMATHES	001, 031, 032, 033, 044, 091	PHILCO	001, 033, 046, 049, 091, 094	YAMAHA	019, 047, 048, 052, 092,
DAEWOO	006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 046, 051, 091	PHILIPS	001, 030, 033, 049, 050, 066, 091	ZENITH	019, 047, 048, 052, 092
DAYTRON	011	PILOT	025	DVD Brand Code List	
DBX	019, 047, 052, 092	PIONEER	049		
EMERSON	025, 031, 032, 044, 046, 094, 095, 097, 098, 099	PORTLAND	011	Brand	Code Number
FISHER	009, 048, 053, 054, 055, 100	QUASAR	001, 033, 049, 067, 091, 107, 108	DENON	003, 032
FUNAI	044	RICO	036	DOONOOON	019
GENERAL ELECTRIC(GE)	001, 031, 032, 033, 056, 091	RCA/PROSCAN	001, 020, 021, 031, 032, 033, 049, 051, 062, 066, 070, 091, 104	DMTECH	017
GOVIDEO	059, 060, 061	REALISTIC	001, 009, 025, 033, 044, 048, 054, 091, 101, 105	FISHER	002
HARMAN KARDON	019	SAMSUNG	000, 006, 031, 032, 057, 058, 071, 072, 073, 074, 075, 076, 077, 078, 079, 080, 081	GE	006
HITACHI	020, 021, 049, 054, 062, 100	SANYO	008, 009, 046, 048, 050, 054, 058, 093, 100	HARMAN/KARDON	012
HQ	051	SCOTT	006, 051, 054, 057, 069, 070, 100, 101	JVC	010, 013
INSTANT REPLAY	001, 033, 049, 091	SEARS	020, 021, 025	KENWOOD	008
JCL	001, 033	SHARP	043, 105, 106	LG	001
JCP	025	SINGER	096	MAGNAVOX	004
JC PENNY	047, 048, 052, 062, 091, 092	SIGNATURE 2000(M,WARDS)	043, 044, 054, 100, 106	MITSUBISHI	005, 016
JVC	001, 033, 047, 052, 063, 064, 065, 092	SHINTOM	096	ONKYO	004, 014
KENWOOD	047, 050, 052, 092	SONY	034, 035, 036, 037, 038, 039, 040, 041, 042, 082, 083, 084, 085, 086	OPTIMUS	011
LG(GOLDSTAR)	019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 050	STS	020	PANASONIC	021
LXI(SEARS)	020, 025, 044, 048, 050, 053, 054, 055, 062, 100	SYLVANIA	001, 033, 044, 049, 066, 091	PROSCAN	006
MAGIN	072	SYMPHONIC	044	PHILIPS	004, 023
MAGNAVOX	001, 031, 032, 033, 049, 066, 067, 091	TANDY	009	PIONEER	007, 011, 022, 025
MARANTZ	001, 019, 033, 047, 052, 092, 110			RCA	006
MARTA	025, 050			SAMSUNG	000, 027
				SANYO	002
				SONY	015, 020
				THETA DIGITAL	011
				TOSHIBA	004, 018
				YAMAHA	009, 033
				ZENITH	004, 024
				TAEKWANG	026
				PS2	028
				X-BOX	029
				APEX	030
				MARANTZ	031



Before Calling for Service

 Symptom	Check	Remedy
Can't turn it on.	<ul style="list-style-type: none"> Is the power cord plugged into the outlet? 	<ul style="list-style-type: none"> Connect the power plug to the outlet.
It does not work when the button is pressed.	<ul style="list-style-type: none"> Is there static electricity in the air? 	<ul style="list-style-type: none"> Disconnect the power plug and connect it again.
Sound is not produced.	<ul style="list-style-type: none"> Are the speaker and external component connected properly? Does the Mute function work? Is the volume set to minimum? Is the speaker setup selected to NONE? 	<ul style="list-style-type: none"> Properly connect it. Press Mute button to cancel the function. Adjust the volume. Refer to pages 20~21 to select LARGE, SMALL or YES.
Picture does not appear when the function is selected.	<ul style="list-style-type: none"> Isn't the external component connected properly? 	<ul style="list-style-type: none"> Properly connect it.
Remote controller does not work.	<ul style="list-style-type: none"> Are the batteries exhausted? Is the distance between remote control and main unit proper? 	<ul style="list-style-type: none"> Replace with new batteries. Operate at close distance.
The sound from each device is changed during stereo playback.	<ul style="list-style-type: none"> Is the left/right speaker or left/right input/output code connected properly? 	<ul style="list-style-type: none"> Check the left/right channel and properly connect it.
Can't receive broadcasting.	<ul style="list-style-type: none"> Is AM or FM antenna connected properly? 	<ul style="list-style-type: none"> Properly connect the antenna. If the input strength of antenna connector is weak, install the FM antenna in a place with good reception.
There is no sound from surround speaker.	<ul style="list-style-type: none"> Is the surround speaker connected properly? Is S.SPK (Surround) set to NONE in Speaker Setup? Is Surround Mode selected to Stereo? 	<ul style="list-style-type: none"> Refer to pages 10~11 to connect it properly. Refer to pages 20~21 to select LARGE or SMALL. Refer to pages 30~37 to select other Surround Mode.
There is no sound from center speaker	<ul style="list-style-type: none"> Is the center speaker connected properly? Is C.SPK (Center) selected to NONE in Speaker Setup? Is the Surround Mode selected to Stereo? 	<ul style="list-style-type: none"> Refer to pages 10~11 to connect it properly. Refer to pages 20~21 to select LARGE or SMALL. Refer to pages 30~37 to select other Surround Modes.

 Symptom	Check	Remedy
Can't select Dolby Pro Logic II Mode.	<ul style="list-style-type: none"> • Is the input signal selected properly? 	<ul style="list-style-type: none"> • Select 2 channel Dolby Digital, PCM, and Analog input signal.
There is no sound when playing DTS encoded DVD and CD.	<ul style="list-style-type: none"> • Is analog input selected? 	<ul style="list-style-type: none"> • Check whether digital external component is properly connected and refer to page 22 to select the digital input.

Product Protection Function

Heat Protection

- Protection function works if the main unit is overheated or power transformer is overheated.
"PROTECTION" appears in the display when this function works.
 - If speaker terminal is shorted
 - If speaker cord is shorted
 If there is no problem when you turn it on again after turning it off, PROTECTION mark will disappear on the display and the unit will work properly.



- If PROTECTION appears on the display, check whether speaker terminal is shorted and then turn on the device.



Specifications

GENERAL	Power Supply	120V, 60 Hz
	Standby Power Consumption	0.9W
	Power Consumption	95W
	Weight	9.25lbs
	Dimensions (W x H x D)	16.9 x 2.6 x 13.7 inches
	Operating Temperature Range	41°F ~ 95°F
	Operating Humidity Range	10%~75%
FM TUNER	Frequency Response	87.5~108.0MHz
	Usable Sensitivity	12dBf
	S/N Ratio	MONO/STEREO 55/55dB
	Distortion	MONO/STEREO 0.3/0.8%
	Stereo Separation	30dB
	Tuner Output Level	1KHz, 75KHz Dev
AM TUNER	Frequency Response	520~1720KHz
	S/N Ratio	40dB
	Usable Sensitivity	60dB μ V/m(Loop Antenna)
	Distortion	2% (MOD:80%)
AMPLIFIER	Rated Output	20Hz~20KHz/THD = 10%
	Front Speaker(Left+Right)	4 Ω 100W/CH
	Center Speaker	4 Ω 100W/CH
	Surround Speaker(Left+Right)	4 Ω 100W/CH
	Subwoofer	4 Ω 100W/CH
	Input Sensitivity/Impedance	450mV/47k Ω
	S/N Ratio(Analog Input)	80dB
	Separation(1KHz)	60dB
FREQUENCY RESPONSE	Analog Input	20Hz~20KHz(\pm 3dB)
	Digital Input/96KHz PCM	20Hz ~44KHz(\pm 3dB)
VIDEO OUTPUT	TV Format	NTSC/PAL
	Input Level/Impedance	1Vp-p/75 Ω
	Output Level/Impedance	1Vp-p/75 Ω
	Video Frequency Response	5Hz to 10KHz(-3dB)
	Component Video Frequency Response	5Hz to 40KHz(-3dB)
	S/N Ratio	60dB

S P E A K E R S	Speaker system	Front / Surround	Center	Subwoofer speaker
	Impedance	4 Ω x 4	4 Ω	4 Ω
	Rated input	100W	100W	100W
	Maximum input	200W	200W	200W
	Dimensions (W x H x D)	3.5 x 6.0 x 3.5 inches	7.9 x 3.5 x 3.6 inches	6.9 x 12.6 x 15.0 inches
	Weight	1.3 lbs/1.1lbs	1.4 lbs	11.5 lbs

* S/N ratio, distortion, separation and usable sensitivity are based on measurement using AES-17 filter.

Samsung Limited Warranty

Samsung Electronics Canada Inc. (SECA), warrants that this product is free from defective material and workmanship.

SECA further warrants that if this product fails to operate properly within the specified warranty period and the failure is due to improper workmanship or defective material SECA will repair or replace the product at its option.

All warranty repairs must be performed by a SECA authorized service centre. (The name and address of the location nearest you can be obtained by calling toll free 1-800-726-7864 or visiting our web site at www.samsung.ca)

Labour
one (1) year (carry-in)

Parts
one (1) year

On carry-in models, transportation to and from the service centre is the customer's responsibility.

The original dated sales receipt must be retained by the customer and is the only acceptable proof of purchase. It must be presented to the authorized service centre at the time service is requested.

Exclusions

This warranty does not cover damage due to accident, fire flood and/or other acts of God; misuse, incorrect line voltage, improper installation, improper or unauthorized repairs, commercial use, or damage that occurs in shipping. Exterior and interior finish, lamps and glass are not covered under this warranty. Customer adjustments which are explained in the instruction manual are not covered under the terms of this warranty.

This warranty will automatically be voided for any unit found with a missing or altered serial number. This warranty is valid only on products purchased and used in Canada.